

Planetary Sciences References in the ADS Abstract Service. G. Eichhorn, A. Accomazzi, C.S. Grant, M.J. Kurtz, S.S. Murray, Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138

The ADS Abstract service provides access to almost 1 million references from astronomy and related disciplines. This includes a large number of references from Planetary Sciences, including table of contents for current issues of Meteoritics, Earth and Planetary Science Letters, Geochimica and Cosmochimica Acta, Planetary and Space Science, and Icarus.

The abstracts can be searched by authors, title and text words. Also included is the search capability for objects for references where we have this information (LPI abstracts, Minor Planet Circulars). This allows searches for articles about specific lunar samples or meteorites.

The search engine allows the usage of full boolean logic and of the simple logic constructs that are now popular in World Wide Web search engines ('+' to require a word, and '-' to exclude a word). Another new feature allows to search for multi-word phrases by enclosing the words of the phrase in single or double quotes (e.g. search for 'Antarctic Meteorites').

The search can be filtered to return only references that fulfill certain conditions (e.g. return only articles from refereed journals, or only references for which the full article is in the system).

The second part of the ADS is a database of full journal articles. In cooperation with many publishers we have scanned their journals and make the images of the full articles available on-line. This allows our users to read the articles and download them for printing. The articles were scanned at 600 dpi resolution and can be downloaded at the high resolution or at 200 dpi for faster downloading and printing. The screen display is processed at 100 dpi with 4 bit greyscale images.

In order to increase the coverage of planetary sciences in the ADS, we are collaborating with the Lunar and Planetary Institute. We will eventually include the complete bibliography from LPI in the ADS. Currently we have references from 1987 to 1995 in our system. LPI is currently processing more references to be included. The ADS database can be queried such that only references from this set of references are returned.

Currently we receive abstracts from Meteoritics and from LPI for their conferences on a regular basis. We are discussing the possibility of including abstracts from other planetary journals with their publishers. We are also discussing whether we can scan some of these journals and make them available on-line (after a certain period after publication in order to protect the journals).

We are currently working with the Minor Planet Center to include IAC circulars and Minor Planet Circulars in the ADS. We are developing a system that will allow us to include new circulars within less than an hour. This will allow our users to retrieve the most up-to-date information about new objects like comets, minor planets, and supernovae.

The ADS abstract service is now mirrored at the CDS in Strasbourg, France. This allows much faster access to the abstracts for our European users. We hope we will be able to mirror the ADS in other parts of the world.

The ADS abstract service can be accessed without charge through the World Wide Web at:

http://adsabs.harvard.edu/ads_abstracts.html

The homepage of the ADS is at:

<http://adswwww.harvard.edu>

For more information contact:

ads@cfa.harvard.edu